

Title (en)

RUBBER COMPOSITIONS COMPRISING METAL CARBOXYLATES AND PROCESSES FOR MAKING THE SAME

Title (de)

KAUTSCHUKZUSAMMENSETZUNGEN MIT METALLCARBOXYLATEN UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)

COMPOSITIONS DE CAOUTCHOUC COMPORTANT DES CARBOXYLATES MÉTALLIQUES ET LEURS PROCÉDÉS DE FABRICATION

Publication

**EP 2914654 A1 20150909 (EN)**

Application

**EP 13792179 A 20131104**

Priority

- US 201261722002 P 20121102
- US 2013068296 W 20131104

Abstract (en)

[origin: WO2014071301A1] The present disclosure provides reinforcing filler-containing rubber compositions suitable for use in tires, and particularly in tire treads. These rubber compositions comprise a metal carboxylate. The metal carboxylate provides improved processability to the rubber compositions in the form of a reduced Mooney viscosity. In certain exemplary embodiments, these rubber compositions containing the metal carboxylate also have an enhanced elastic modulus (also referred to as the G'). Further, in certain of the enhanced elastic modulus embodiments, the rubber compositions containing the metal carboxylate also have decreased hysteresis loss.

IPC 8 full level

**B60C 1/00** (2006.01)

CPC (source: EP US)

**B60C 1/0016** (2013.01 - EP US); **C08K 3/04** (2013.01 - EP US); **C08K 3/36** (2013.01 - EP US); **C08K 5/098** (2013.01 - EP US); **C08K 5/5415** (2013.01 - EP US); **C08K 5/548** (2013.01 - EP US); **C08K 13/02** (2013.01 - US)

C-Set (source: EP US)

1. **C08K 5/098 + C08L 9/00**
2. **C08K 3/04 + C08L 9/00**
3. **C08K 3/36 + C08L 9/00**
4. **C08K 5/5415 + C08L 9/00**

Citation (search report)

See references of WO 2014071301A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**WO 2014071301 A1 20140508**; CN 104995248 A 20151021; CN 104995248 B 20171208; EP 2914654 A1 20150909; EP 2914654 B1 20170531; JP 2015533388 A 20151124; JP 6313775 B2 20180418; US 2015274939 A1 20151001; US 9670341 B2 20170606

DOCDB simple family (application)

**US 2013068296 W 20131104**; CN 201380069124 A 20131104; EP 13792179 A 20131104; JP 2015540848 A 20131104; US 201314440161 A 20131104